L Number	Hits	Search Text	DB	Time stamp
1	1877	((524/317) or (524/310) or (524/313)).CCLS.	USPAT; US-PGPUB	2003/06/10 14:53
2	111	(((524/317) or (524/310) or (524/313)).CCLS.) and polycarbonate$	USPAT; US-PGPUB	2003/06/10 15:05
3	1243	(528/196).CCLS.	USPAT; US-PGPUB	2003/06/10 15:05
4	103945	nmr or hnmr	USPAT; US-PGPUB	2003/06/10 15:06
5	18514	"h-nmr"	USPAT; US-PGPUB	2003/06/10 15:06
6	4701	chemical adj shift	USPAT; US-PGPUB	2003/06/10 15:06
7	12692	signal adj intensit$	USPAT; US-PGPUB	2003/06/10 15:06
8	228	((528/196).CCLS.) and ((nmr or hnmr) or "h-nmr" or (chemical adj shift) or (signal adj intensit$))	USPAT; US-PGPUB	2003/06/10 15:34
9	4702	polycarbonate$[ab]	USPAT; US-PGPUB	2003/06/10 15:35
10	327	polycarbonate$[ab] and ((nmr or hnmr) or "h-nmr" or (chemical adj shift) or (signal adj intensit$)) not (((528/196).CCLS.) and ((nmr or hnmr) or "h-nmr" or (chemical adj shift) or (signal adj intensit$)))	USPAT; US-PGPUB	2003/06/10 16:00
11	80786	ion adj exchange$	USPAT; US-PGPUB	2003/06/10 16:01
12	257681	distil$	USPAT; US-PGPUB	2003/06/10 16:01
13	116	polycarbonate$[ab] and (ion adj exchange$) and distil$	USPAT; US-PGPUB	2003/06/10 16:01

WEST

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L11: Entry 1 of 14 File: DWPI Jan 21, 2003

DERWENT-ACC-NO: 2002-150430
DERWENT-WEEK: 200309

TITLE: Aromatic polycarbonate used in a thin wall molding for a disc substrate has a specific integrated intensity relation of signals of hydrogen nuclear magnetic resonance spectra of polycarbonates

INVENTOR: FUNAKOSHI, W; KAGEYAMA, Y ; KANEKO, H ; SASAKI, K

PRIORITY-DATA: 1999JP-0266934 (September 21, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 6509435 B1	January 21, 2003		000	C08G064/00
JP 2001158821 A	June 12, 2001		009	C08G064/06
WO 200170849 A1	September 27, 2001	J	000	C08G064/06
EP 1191049 A1	March 27, 2002	E	000	C08G064/06
KR 2001112657 A	December 20, 2001		000	C08G064/06
CN 1371399 A	September 25, 2002		000	C08G064/06

INT-CL (IPC): C08 G 64/00; C08 G 64/06; C08 G 64/30; C08 J 5/00; G02 B 1/04; G11 B 7/0037; G11 B 7/24

ABSTRACTED-PUB-NO: JP2001158821A
BASIC-ABSTRACT:

NOVELTY - Polycarbonates having a specific integrated intensity relation of signals of 1H-NMR spectra of polycarbonates provides excellent mechanical strength and heat resistance stability of a molding.

DETAILED DESCRIPTION - Polycarbonates with viscosity average molecular weight of 10000-100000 have a repeated structural unit of formula (I):

in which, in 1H-NMR spectra measured using a solvent of heavy chloroform, sum of integrated intensity of signals detected in four ranges of (A) delta = 2.14-2.17 ppm, (C) delta = 3.46-3.49 ppm, (B) delta = 3.62-3.69 ppm and (D) delta = 5.42-5.46 ppm is 0.01-2.0% of integrated intensity of a signal derived from methyl group detected at range of delta = 1.50-2.00 ppm.

USE - The aromatic polycarbonate is used in thin wall moldings for a disc substrate and for a housing of an electric product.

ADVANTAGE - Product excels in mechanical strength and can be made into a very thin wall molding.

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L8: Entry 12 of 45 File: DWPI Jan 7, 2000

DERWENT-ACC-NO: 2000-130608
DERWENT-WEEK: 200020

TITLE: Polycarbonate resin composition - includes metal other than alkali metal and aliphatic acid ester of polyvalent alcohol

PRIORITY-DATA: 1998JP-0166688 (June 15, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 2000001608 A	January 7, 2000		007	C08L069/00

INT-CL (IPC): C08 K 5/103; C08 L 69/00; G11 B 7/24

ABSTRACTED-PUB-NO: JP2000001608A
BASIC-ABSTRACT:

NOVELTY - Polycarbonate resin composition includes 0.5 ppm of a metal other than an alkali metal, and 100 to 1000 ppm of a aliphatic acid ester of a polyvalent alcohol as a mold-releasing agent.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for: (1) Substrate for optically recording medium includes an injection-molded product obtained by injection molding the above polycarbonate resin composition, wherein not less than 50 % of the aliphatic acid ester of the polyvalent alcohol compounded as the mold-releasing agent is retained in the molded product. The total content of iron, nickel, chromium and aluminium is not more than 0.5 ppm, and the aliphatic acid ester of the polyvalent alcohol is contained in an amount of 100 to 1000 ppm as the mold-releasing agent. The substrate for the optically recording medium includes a track having a pitch of 2.0 alpha m or less.

USE - As the substrate for the optically recording medium.

ADVANTAGE - The polycarbonate resin composition causes no molding defect and exhibits excellent substrate properties.

WEST Search History

DATE: Tuesday, June 10, 2003

Set Name side by side	Query	Hit Count	Set Name result set
	DB=DWPI; PLUR=YES; OP=OR		
L13	l6 and (signal adj intensit$)	3	L13
L12	l6 and (chemical adj shift)	0	L12
L11	L6 and (l9 or l10)	14	L11
L10	"h-nmr"	88	L10
L9	nmr$ or hnmr$	6995	L9
L8	L7 and ppm	45	L8
L7	L6 and (fe or iron)	1109	L7
L6	L5 not (l2 or l3 or l4)	35684	L6
L5	polycarbonate$	35687	L5
L4	jp-08073724-$.did.	1	L4
L3	jp-2000229899-$.did.	1	L3
L2	jp-2000063505-$.did.	1	L2
L1	jp2000063505-$.did.	0	L1

END OF SEARCH HISTORY

WEST

Generate Collection Print

L8: Entry 11 of 45 File: DWPI Jan 11, 2000

DERWENT-ACC-NO: 2000-142723
DERWENT-WEEK: 200022

TITLE: Polycarbonate resin composition for extrusion molding - including polycarbonate of above 5 mol percent of the concentration of phenol end group

PRIORITY-DATA: 1998JP-0193738 (June 23, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 2000007905 A	January 11, 2000		009	C08L069/00

INT-CL (IPC): B29 C 47/00; B29 K 69:00; B29 L 7:00; C08 J 5/18; C08 L 69/00

ABSTRACTED-PUB-NO: JP2000007905A
BASIC-ABSTRACT:

NOVELTY - A polycarbonate resin compositon includes polycarbonate of above 5 mol % of the concentration of phenol end gp.

DETAILED DESCRIPTION - A viscosity average molecular wt. of polycarbonate is 18,000 - 40,000, and the distribution of the molecular wt. is 2.0 - 3.8. The polycarbonate is prepared by the fused polycondensation of aromatic dihydroxy compound and carboxylic acid diester in the presence of the ester interchange catalyst. The polycarbonate is prepared by using carbonate diester of less than 0.3 wt. % of water, less than 4 ppm of chloride ion (including chloride ion generatable by hydrolyzation), less than 1 ppm of sodium ion, less than 1 ppm of iron ion, less than 1 ppm of copper ion, less than 5 ppm of tin ion, less than 20 ppm of phosphorus, less than 50 ppm in total of phenyl salicylate, o-phenoxy benzoic acid and o-phenoxy benzoic acid phenyl, and 50 ppm of methyl phenyl carbonate.

USE - None given.

ADVANTAGE - The mold ing property and the thermal stability.

WEST

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L8: Entry 10 of 45 File: DWPI Jul 18, 2000

DERWENT-ACC-NO: 2000-551825
DERWENT-WEEK: 200066

TITLE: Manufacture of aromatic polycarbonate involves reacting bisphenol A containing specific quantity of ortho and para bisphenol A, with carbonic acid diester

PRIORITY-DATA: 1999JP-0000992 (January 6, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 2000198838 A	July 18, 2000		006	C08G064/30

INT-CL (IPC): C08 G 64/30

ABSTRACTED-PUB-NO: JP2000198838A
BASIC-ABSTRACT:

NOVELTY - Carbonic acid diester and bisphenol A (bis-4-hydroxy phenyl-2,2-propane) containing 50 ppm or less of 2,4'-dihydroxy diphenyl-2,2-propane (ortho and para bisphenol A) react to form an aromatic polycarbonate. The amount of iron content in the raw materials, is less than 0.1 ppm.

USE - For manufacture of aromatic polycarbonate.

ADVANTAGE - Aromatic polycarbonate having excellent color phase, heat resistivity and few branching, is manufactured.

WEST

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L8: Entry 13 of 45 File: DWPI Nov 9, 1999

DERWENT-ACC-NO: 2000-047984
DERWENT-WEEK: 200011

TITLE: Manufacturing method of aromatic poly:carbonate(s) - comprises reacting di:ester:carbonate(s) with bis:phenol A containing cromanic organic compound and iron

PRIORITY-DATA: 1998JP-0120812 (April 30, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 11310630 A	November 9, 1999		006	C08G064/30

INT-CL (IPC): C08 G 64/30

ABSTRACTED-PUB-NO: JP 11310630A
BASIC-ABSTRACT:

Manufacturing method of aromatic polycarbonates comprises reacting diestercarbonates and bisphenol A [2,2-bis(4-hydroxyphenyl)propane]. The bisphenol A contains up to 200 ppm of cromanic organic compound of formula (1) and up to 0.1 ppm of iron.

Formula (1-1)-p

R1-R5 = H, 1-8C alkyl or aromatic group; R6 = H, 1-8C alkyl, aromatic group or a group of formula (2).

Formula (2-2)-p

R7 ,R8, R9 = H, 1-8C alkyl or aromatic group; m,n = integer 0-5.

ADVANTAGE - Product excels in color and heat resistance and causes less gelation.